

IN THE CLAIMS:

Please amend claims 1- 18 as follows:

1. (Currently Amended) ~~Sighting~~ A sighting device for an examination by *in vivo* tomography of the eye of a subject, comprising at least one moving target (~~CA, CB~~) having a programmable shape or trajectory, said target being displayed on viewing means and visible by at least one eye of said subject during the examination period.
2. (Currently Amended) ~~Device~~ The device according to claim 1, characterized in that it also comprises further including means ~~to move~~ for moving the target(s) so as to alternate fixation intervals on a given position with intervals termed rest on one or more other positions.
3. (Currently Amended) ~~Device~~ The deivce according to claim 2, characterized in that it also comprises further including means ~~of~~ for adjusting the duration of the fixation intervals.
4. (Currently Amended) ~~Device~~ The device according to claim 3, characterized in that it also comprises further including means ~~of~~ for adjusting the diversity of the rest positions.
5. (Currently Amended) ~~Device~~ The device according to one of claims 3 or 4, characterized in that it also comprises claim 3, further including means ~~of~~ for adjusting the duration of the rest positions.
6. (Currently Amended) ~~Device~~ The device according to one of claims 3 to 5, characterized in that it also comprises claim 3, further including means ~~of~~ for controlling a continuous movement of a moving target.

7. (Currently Amended) ~~Sighting~~ A sighting method for an examination by *in vivo* tomography of a subject's eye, implemented in a device according to ~~one of the preceding claims~~claim 1, comprising a display on the viewing means, during the examination period, of at least one moving target (~~CA, CB~~) having a programmable shape or a programmable trajectory and visible by at least one eye of said subject.

8. (Currently Amended) ~~Method~~ The method according to claim 7, characterized in that it also comprisesfurther including a movement of the target(s) so as to alternate fixation intervals on a given position with intervals termed rest on one or more other positions.

9. (Currently Amended) ~~Method~~ The method according to claim 8, characterized in that it also comprisesfurther including an adjustment of the duration of the fixation intervals.

10. (Currently Amended) ~~Method~~ The method according to ~~one of~~ claims ~~8 or 9~~, characterized in that it also comprises claim 8, further including an adjustment of the diversity of the rest positions.

11. (Currently Amended) ~~Method~~ The method according to claim 7, characterized in that it also comprisesfurther including a control of a continuous movement of a moving target.

12. (Currently Amended) ~~Method~~ The method according to ~~one of~~ claims ~~1 to 11~~, characterized in that it also comprises claim 1, further including a tracking of the movements of the eye to be examined.

13. (Currently Amended) ~~Method~~ The method according to ~~one of~~ claims ~~1 to 12~~, characterized in that claim 1, wherein the tracking of the movements of the eye to be examined is carried out by imaging using a non-visible spectrum.

14. (Currently Amended) ~~System~~ A system for examining the eye by *in vivo* tomography, comprising a tomography device including:

- a Michelson interferometer, producing a full field optical coherence tomography OCT setup,

- adaptive optical means, arranged between the interferometer and an eye to be examined, producing a correction of the wavefronts originating from the eye as well as those reaching the eye, and

- means ~~effor~~ detection, arranged downstream of the interferometer, capable of carrying out, without synchronous modulation or detection, the interferometric measurement according to the OCT principle, and

~~characterized in that it also comprises a sighting device comprising at least one moving target, having a programmable shape or a programmable trajectory, said target being displayed on viewing means and visible from at least one of the eyes of said patient during the examination period.~~

15. (Currently Amended) ~~System~~ The system according to claim 14, ~~characterised in that wherein~~ the sighting device and the tomography device collaborate by using an *a priori* knowledge of the trajectory or of the shape of the target to readjust the images of the eye as a function of said trajectory.

16. (Currently Amended) ~~System~~ The system according to ~~one of claims 14 or 15, characterized in that it comprises claim 14, further including means (IRIS) effor~~ tracking movements of the eye to be examined (OEX), collaborating with the tomography device.

17. (Currently Amended) ~~System~~ The system according to ~~one of claims 14 to 16, characterized in that it comprises claim 14, further including means to enablefor enabling~~ the image of the target to reach both eyes (OVI, OEX) of the subject to be examined.

18. (Currently Amended) ~~System~~ They system according to one of claims 14 to 17, characterized in that it comprises claim 14, further including means to enable for enabling the image of the target to reach the unexamined eye of the target selectively from one side (OV1) or from the other side (OV2) of the examined eye (EX).